Amendment to the Claims:

1. (Currently amended) A system suitable for adaptive post-processing of media data in an electronic device, the system comprising:

    a. one or more post-processing modules, the post-processing modules performing post-processing of the media data, each post-processing module comprising one or more processing modes with different complexities; and

    b. an adaptive mode decision module coupled to the post-processing modules, wherein the adaptive mode decision module decides a suitable processing ~~modes~~ mode to be used in each of the post-processing modules, the decision being based on a pre-defined overall complexity of each of one or more combinations of the one or more processing modes, the overall complexity for each of the combinations corresponding to one or more values of input parameters, the input parameters being representative of the state of the electronic device.

2. (Original) The system as recited in claim 1 wherein the adaptive mode decision module comprises:

    a. an input module, the input module receiving the input parameters;

    b. a table module relating the processing modes of the post-processing modules and all possible values of the input parameters; and

    c. an output module coupled to the input module and the table module, the output module selecting the suitable processing modes of the post-processing modules.

3. (Original) The system as recited in claim 1 wherein one of the input parameters is remaining battery power of the electronic device.

4. (Original) The system as recited in claim 1 wherein one of the input parameters is processor usage of the electronic device.

5. (Original) The system as recited in claim 1 wherein one of the input parameters is user preference, the user preference indicating choice of output quality of the media data.

6-13. (Cancelled)

14. (Currently amended) A computer program product for use with a computer, the computer program product comprising a computer usable medium having a computer readable program code embodied therein for adaptive post-processing of media data in an electronic device, the post-processing being performed using one or more post-processing modules, each of the post-processing modules comprising one or more processing modes, each of the processing modes having with different complexities, the computer program code performing:

    a. obtaining one or more input parameters, the input parameters being representative of the state of the electronic device; influencing the post-processing of the media data;

    b. selecting a suitable processing modes mode for in each of the post-processing modules, the selection being based on the input parameters and the complexity of the processing modes comprising:

        i. obtaining a combination of processing modes to be used for each input parameter;

        ii. determining an overall complexity for each of the combinations corresponding to the input parameters; and

        iii. selecting the combination of the processing modes having a pre-defined overall complexity; and

c. performing post-processing of the media data using the <u>selected</u> suitable processing modes.

15. (Original) The computer program product as recited in claim 14 wherein the computer program code for obtaining the values of one or more input parameters comprises a computer program code for continuously monitoring the values of the input parameters.

16. (Original) The computer program product as recited in claim 14 wherein the computer program code for selecting the suitable processing modes comprises a computer program code for generating a table, the table defining the suitable processing modes to be used for a given range of input parameter values.

17. (Original) The computer program product as recited in claim 16 wherein the computer program code for generating the table comprises a computer program code for:

a. obtaining the processing modes available in the post-processing modules;

b. obtaining all combinations of processing modes, each combination containing one processing mode from each processing module;

c. obtaining output quality for each combination of the processing mode;

d. arranging the combinations of processing modes in increasing order of complexity;

e. eliminating the combinations that do not give higher quality compared to the combinations having lower complexity; and

f. allocating ranges of input parameter values for each combination of processing modes.

18. (Original) The computer program product as recited in claim 14 wherein the computer program code for obtaining the input parameters comprises a computer program code for obtaining remaining battery power in the electronic device.

19. (Original) The computer program product as recited in claim 14 wherein the computer program code for obtaining the input parameters comprises a computer program code for obtaining processor usage of the electronic device.

20. (Original) The computer program product as recited in claim 14 wherein the computer program code for obtaining the input parameters comprises a computer program code for obtaining user preference, the user preference indicating desired output quality of the media data.

21. (Cancelled)

22. (New) A computer program product for use with a computer, the computer program product comprising a computer usable medium having a computer readable program code embodied therein for adaptive post-processing of media data in an electronic device, the post-processing being performed using one or more post-processing modules, each of the post-processing modules comprising one or more processing modes, each of the processing modes having different complexities, the computer program code performing:

    a. generating a table for relating the one or more processing modes with one or more input parameters, the generation of the table comprising:

        i.   obtaining the one or more processing modes available in the post-processing modules;

    ii.   obtaining all combinations of processing modes, each combination containing one processing mode from each processing module;

    iii.   obtaining output quality for each combination of the processing mode;

    iv.   arranging the combinations of processing modes in increasing order of complexity;

    v.   eliminating the combinations that do not give higher quality compared to the combinations having lower complexity; and

    vi.   allocating ranges of input parameter values for each combination of processing modes.

b. obtaining the one or more input parameters, the input parameters being representative of the state of the electronic device;

c. selecting a suitable processing mode in each of the post-processing modules with a pre-defined complexity; and

d. performing post-processing of the media data using the selected processing mode.